POLYAKOV, VII.

PHASE I BOOK EXPLOITATION

SOV/5601

INVESTMENT OF PERSONS ASSESSED FOR THE STREET OF THE STREET

- Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu
- Stroitel no-montazhnyye krany; spravochnoye posobiye (Construction Erection Cranes; a Manual) 2d ed. Moscow, Gosstroyizdat, 1960. 411 p. Errata slip inserted. 30,000 copies printed.
- Scientific Ed.: S. P. Yepifanov, Candidate of Technical Sciences; Ed. of Publishing House: I. L. Kromoshch; Tech. Ed.: N. I. Rudakova.
- PURPOSE: This manual is intended for technical personnel of design offices and building organizations concerned with the overall mechanization of construction erection operations.
- COVERAGE: The manual contains a brief description of designs of cranes used in erection work and data on cranes, including purposes, specifications and functional diagrams, reference data

Card 1/9

Construction Erection Cranes; a Manual

SOV/5601

onperformance, composition of crews, required labor consumption, the cost of mounting and dismounting, and the arrangement of tracks. Also contained in the book are data on standard winches, anchors, and ropes, graphs on the cost of the crane operation per shift, basic considerations in the selection of cranes, and the methods for determining performance. The Foreword and Part of the manual were written jointly by V. I. Polyakov, Candidate of Technical Sciences, and V. A. Solov'yev, Engineer. Parts II and III were written by Polyakov, Solov'yev, and A. N. Bogatov, and III were written by Polyakov, Solov'yev, and A. N. Bogatov, Engineer. Ch. 4, Section 2, of Part I was written by S. P. Yepifanov, Candidate of Technical Sciences. Ch. I, Sections 1 and 3, and Ch. III of Part I and the tables of means of transportation and graphic data for Parts I and III (Ch. 2, 4, 6, and 7) were compiled by Solov'yev. Ch. I, Section 2, of Part I, and 7) were compiled by Solov'yev. Ch. I, Section 2, of Part I, and 7) were compiled by Solov'yev. Ch. I, Section 2, of Part I, and Tables of tracks (together with Yu. A. Borisenko), and the teristic of tracks (together with Yu. A. Borisenko), and the graphic material for Parts II (entirely) and III (Chs. 1, 3, and 5) were compiled by Bogatov. The portion of Part I dealing with

Card 2/9

O11D 02. (action Erection Cranes; a Manual SOV/5601	
	Electric motors	10 17
4.	Steel rope Standard anchors for fastening guy ropes, pulley blocks, and winches	34
h. 2.	Crane Tracks	44
1. 2.	Materials and hardware used in building tracks	46 51
h. 3.	Means of Transportation Used for Shipping Granes	56
h. 4.	Basic Considerations in the Selection of Crane	60
1.	Determining the performance of cranes	60 76
2. 3.	Determining the planned cost of crane operation per shift Suggestions on the selection of cranes	80
	PART II. STATIONARY CRANES	
h. 1.	Guy Derricks	86

vonstr	uction Erection Cranes; a Manual SOV,	/5601
1. 2. 3.	Purpose and description Specifications and performance data Mounting and dismounting	112 117 118
	PART III. LOCOMOTIVE CRANES	
1.	Railroad Cranes Purpose and description Specifications, performance data, and mounting and dismounting	
Ch 2	Crawler and Grab-Bucket Cranes	138
1.	Purpose and description Specifications, performance data, and mounting and d mounting	
Ch 3	Truck-Mounted Cranes	174
1.	Purpose and description	182 182
Card 6/		

onstr	uction Erection Cranes; a Manual SOV/5601	
2.	Specifications, performance data, and means of transportation	i- 190
n. 4. 1. 2.	Cranes on Special Chassis Purpose and description Specifications, performance data, and means of trans-	202 202
	portation of trains	211
1.	Tower Cranes Cranes for low public and industrial construction a, Description of the cranes b, Specifications, performance data, mounting and dis-	218 218 218
2.	mounting, means of transportation, and overhead tracks Cranes for multistory public and industrial construction Description of the cranes	232
_	o, Specifications, performance data, mounting and dis-	232
C	mounting, means of transportation, and tracks Description of the mounting and dismounting of tower	28
	cranes	295

Construction Erection Cranes; a Manual SOV/560	1
 Ch. 6. Gantry Cranes 1. Description 2. Specifications, performance indices, labor consumption, mounting and dismounting costs, and means of transporta 	357 357
thon required	376
Ch. 7. Cranes Mounted on C-80 Tractors 1. Description 2. Specifications, performance data and means of trans	380 380
 Specifications, performance data, and means of trans- portation 	387
Ch. 8. New Cranes 1. Crawler grab-bucket and special erection cranes 2. Truck-mounted cranes 3. Cranes mounted on special pneumatic-tire chassis 4. Special erection cranes	390 390 397 400 409
AVAILABLE: Library of Congress	
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s/100/60/000/003/001/003 A053/A026

AUTHORS:

Ivanov, V.A., Engineer; Polyakov, V.I., Candidate of Technical

Sciences

TITLE:

What Cranes Are Required by Builders

PERIODICAL: Mekhanizatsiya Stroitel'stva, 1960, No. 3, pp. 3 - 8

The article gives a survey of the crane situation in the USSR in reference to the building trade and its requirements, also stating to what extent these are complied with in regard to type, capacity, quality and availability. About 80 - 85% of the existing stock of cranes, viz. 21,000, are 1 - 2 ton tower cranes, therefore unsuitable for mass construction of large-panel and large unit houses. Ten to 12% of the stock are 3 - 5 ton cranes of obsolete design. There is a small number of caterpillar cranes of 15, 25 and 50-ton capacity, of 10 - 12 and 25-ton cranes on pneumatic-tire wheels, and of 3 - 5 ton automotive cranes; there are only very few 10-ton automotive cranes. A great number of these cranes are not fit for construction work on account of their booms being too short, or their design being obsolete. For lifting structural loads elevators are mostly in use. There are about as many elevators available in the USSR as there are

Card 1/5

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tower cranes, which is abnormal. - The cost of keeping 1.5 - 10 ton cranes in repair represents 25 - 55% of the machine cost per shift. This excessively high maintenance cost is due to wrong design of cranes, excessive wear of parts, poor lubrication system, nonstandardized parts and units and lack of spare parts. Electric equipment is of poor quality and carelessly assembled, the same applies to Diesel engines, to mechanisms, cables, friction material and ball bearings. Some of the equipment employed is outmoded, if not obsolete, which is also true for the tires. The authors come to the conclusion that the existing stock of cranes is not meeting the requirements of the building trade in regard to quality, technical characteristics, types and capacities. The present volume of scientific research work in the domain of cranes and elevators does not correspond with the actual problems in the building trade. The Head Institute HUNOMTH AC u A (NII OMTP AS & A) of the USSR which is in charge of investigating these problems is understaffed and has not the necessary facilities to conduct experiments and research work and to work out designs. Other existing institutes turn out inadequate work and often duplicate themselves. Consequently up to now there does not exist a uniform method of designing, nor technical conditions and norms for designing cranes and elevators, nor standard series of types of boom cranes and elevators composed of standard units. In addition to working out new designs of cranes, due attention should be paid to proper utilization of the existing Card 2/5

S/100/60/000/003/001/003 A053/A026

stock of cranes, especially in view of the necessity of having these modernized. In this connection NIIOMTP proposes 2 variants of modernization, applying to the majority of existing tower cranes of the type C5K-1 (SBK-1). The choice between the two variants depends upon the capacity of each building concern in question, a certain number of contractors have already taken up modernization work on SBK-1 cranes with a view to increase their lifting capacity to 4 - 5 tons. The first variant maintains the structural design of the crane SBK, in changing only a few units, whereas the second variant radically changes the design of the SBK-1, giving it greater mobility, speed and power. The main reason of the unsatisfactory situation prevailing in developing the kind of cranes and elevators most needed in the building trade, is to be found in the absence of a scientific research center for investigating new progressive designs of cranes and elevators. It is also abnormal that 95% of all plants are situated in the European part of the USSR; 3 plants are only located in Siberia and none in the Far East. There are at present 100 models of different tower cranes in use. In addition to new types of cranes a number of old obsolete models are still being produced. The plans for the production of new cranes provide for a ratio between tower cranes and boom cranes of 4:1. During the period 1959 - 1965 there should be produced 5,000 boom cranes of 10 - 15 ton capacity and 2,000 boom cranes of 20 - 60 ton capacity. The power-Card 3/5

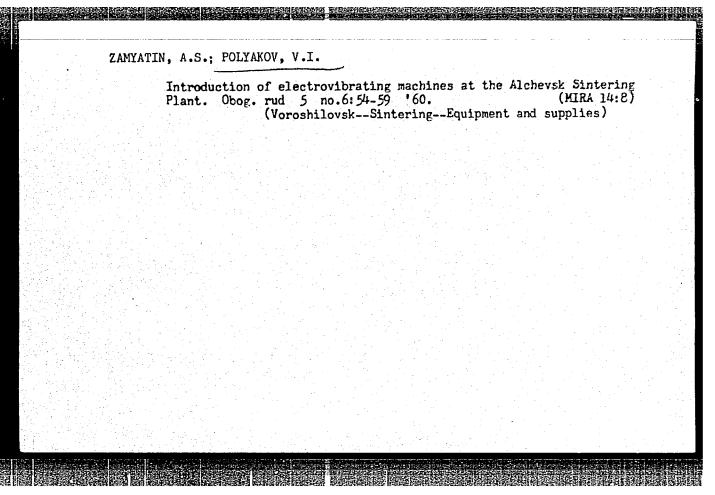
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ful caterpillar cranes having a lifting capacity of 50 - 75 tons supplied by the Voronezh Excavator Plant, and the 75-ton model of the Uralmashzavod Plant should have all the technical characteristics of a crane, although being developed from an excavator. The supply of Dieselhydraulic turbo-transformer 10 - 15 ton cranes on pneumatic tires and of 40 - 60 ton cranes intended for building purpose, started to be produced by the Odessa Plant of Heavy Crane Building, should be speeded up; the same applies to the project of 60-ton cranes on pneumatic tires. For the next few years the emphasis in house building lies on 4 - 5 story appartment houses, made from prefabricated large panels, weighing 1.5 - 5 tons. Development work will also continue on such structural elements as block rooms and block appartments, weighing from 5 to 25 tons. In the construction of hydroelectric power plants and heat and power plants it is proposed to use structural elements weighing from 20 - 40 tons, some reaching even 75 tons. These requirements determine the technical characteristics for the cranes to be used in regard to capacity (15 - 5 tons), reach of hook (10 - 20 m), height of lift (22 - 32m) - for building of 3 - 5 story houses. For structural elements exceeding 5 tons, such as are used for industrial buildings, cranes with a lifting capacity of 50, 60, 75 - 80 and even 100 tons capacity are required, mounted on tires or caterpillars. The boom length must be 40 - 80 m with an extension from 10 - 30 m, made of tubes or

S/100/60/000/003/001/003 A053/A026

of light metal. Cranes should be able to move while carrying a load over normal ground on sites permitting a pressure of 2 kg/cm². The driving gear should permit independent operation as well as combined operations of two mechanisms. A modern crane should provide for the driving of mechanisms from a built—in power installation with the possibility of taking power feed from an outside a - c source; the cabin should be insulated, heated and ventilated; cranes should have a multi—motor or hydraulic drive, interchangeable booms and extensions and quickly removelectric drive or gasoline engines; they should easily be mounted and dismantled. Tests carried out by NIIOMTP showed that for the assembly of prefabricated 5-story ones. For the assembly of houses made from room and appartment blocks weighing Repair Plant of Glavmosstroy. There are 1 table and 3 figures.

Card 5/5



IVANOV, V.A., inzh.; POLYAKOV, V.I., kand.tekhn.nauk

What kind of cranes do builders need. Mekh.stroi. 17 no.3:
3-8 Nr '60.

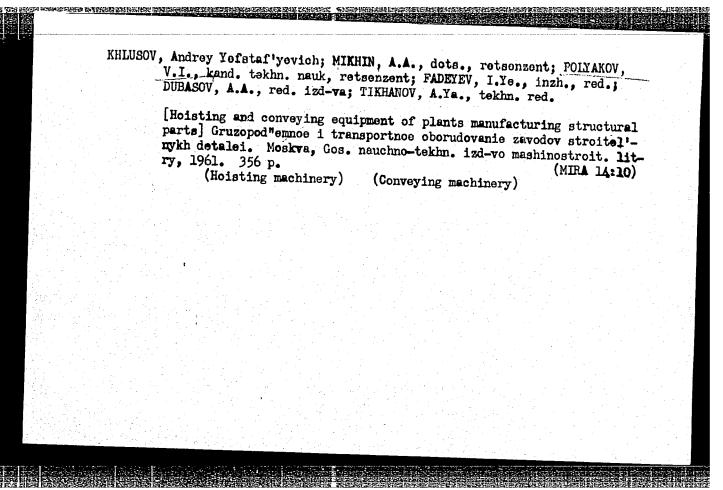
(Granes, derricks, etc.)

MEYNERT, V.A., inzh.; POLYAKOV, V.I., kand. tekhn. nauk, nauchnyy red.; CHEKHOVSKAYA, T.P., red.izd-va; KASIMOV, D.Ya., tekhn. red.

[Operation of motor cranes] Rabota na avtomobil'nykh kranekh.
Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 159 p. (MIRA 15:2)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye po montazhu
tekhnologicheskogo oborudovaniya i proizvodstva montazhnykh rabot.

(Cranes, derricks, etc.)

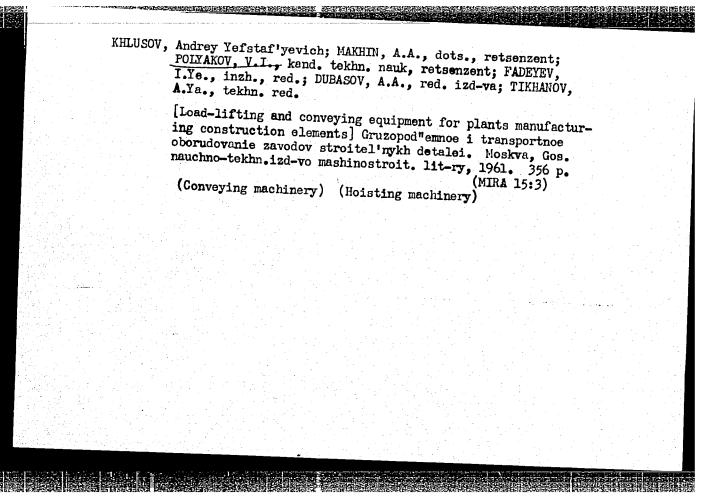


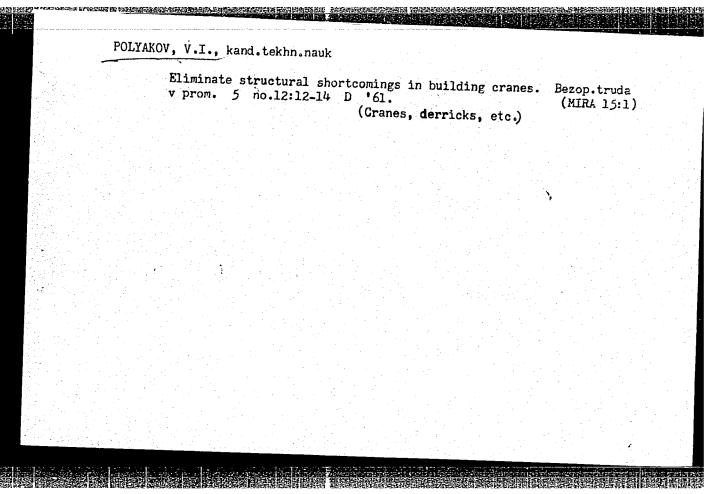
ASTAKHOV, A.I., inzh.; POLYAKOV, V.I., kand. tekhn. nauk, nauchnyy red. TABUNINA, M.A., red. izd-va; OSENKO, L.M., tekhn. red.

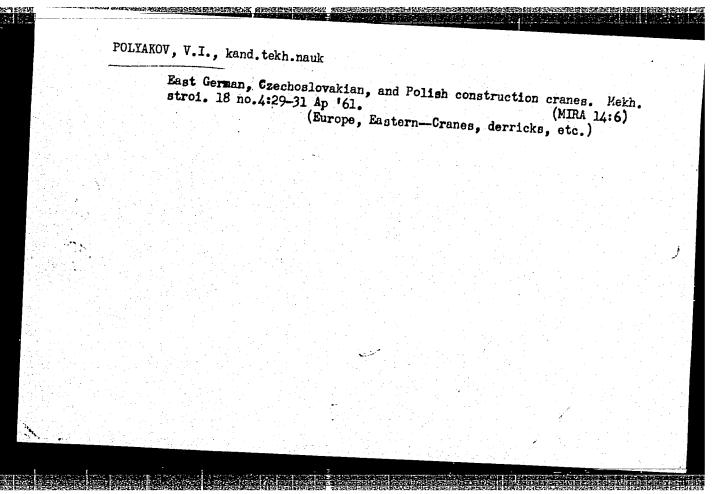
[Operating crawler cranes] Rabota na gusenichnykh kranakh. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 154 p. (MIRA 14:12)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.

(Cranes, derricks, etc.)







IVYANSKIY, G.B., kand. tekhn. nauk; POINAKOV, V.I., kand. tekhn.nauk;

RAYPEMBERG, S.M., inzh.; CHEREPAKHIN, N.V., inzh.;

PROSKURNINÁ, V.P., red.; TRUBHN, V.A., glev. red.; SOSHH!,

A.V., zam. glav. red.; CHINEVICH, G.P., red.; YEPIFAHOV, S.P.,

red.; CNUFRIYEV, I.A., red.; KHOKHLOV, B.A., red.; ZIMIN, P.A.,

red.; PEREVAIYUK, M.V., red. izd-va; NAUMOVA, G.D., tekhn. red.

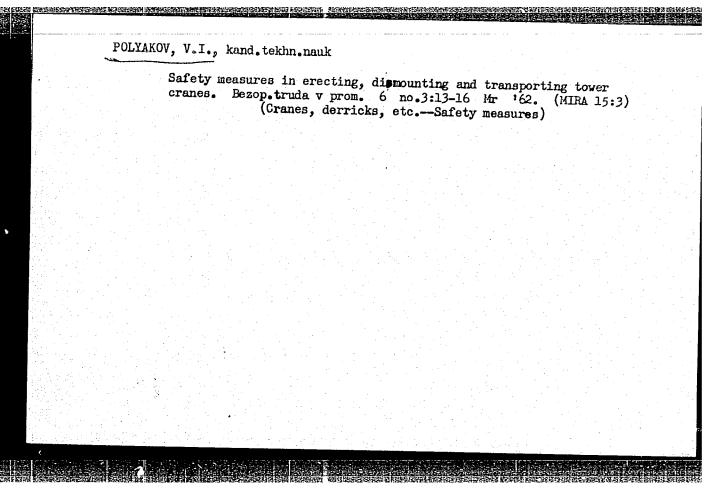
[Erection of completely precast apartment houses]Montazh polnosbornykh shilykh zdanii; spravochnoe posobie. Pod red. V.P.

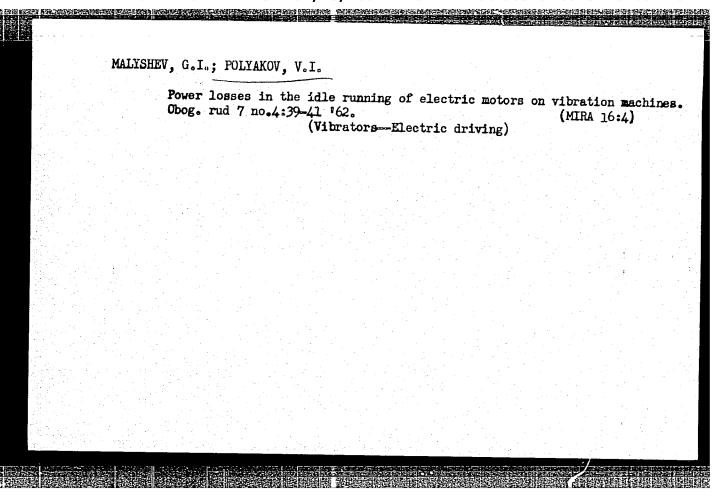
Proskurnina. Moskva, Goostrolizdat, 1962. 94 p.

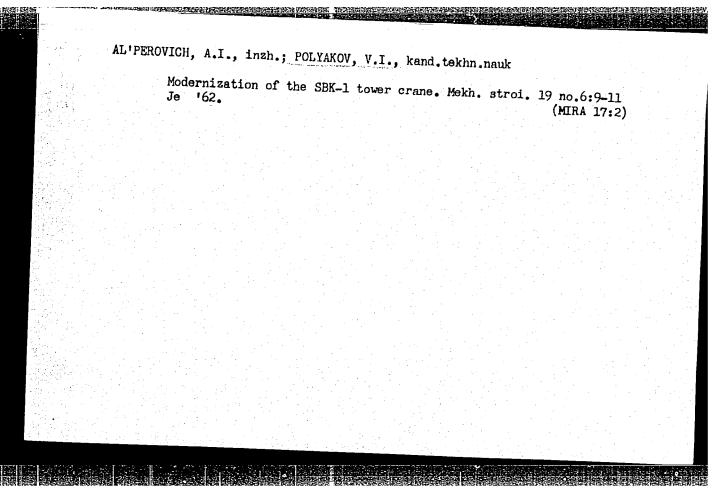
(MIRA 15:11)

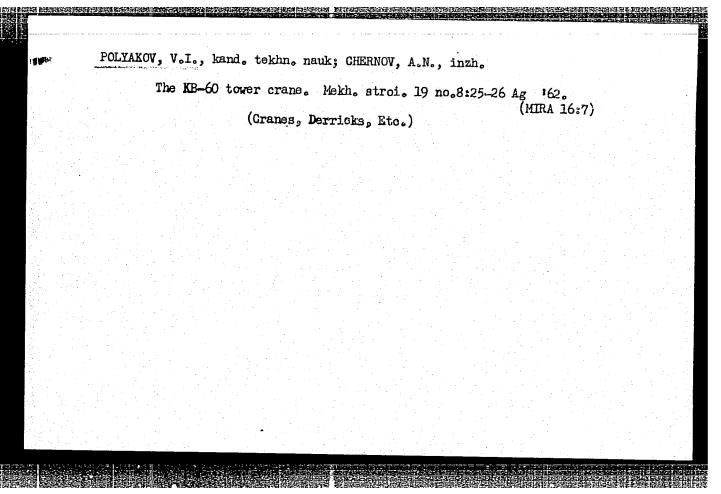
1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.

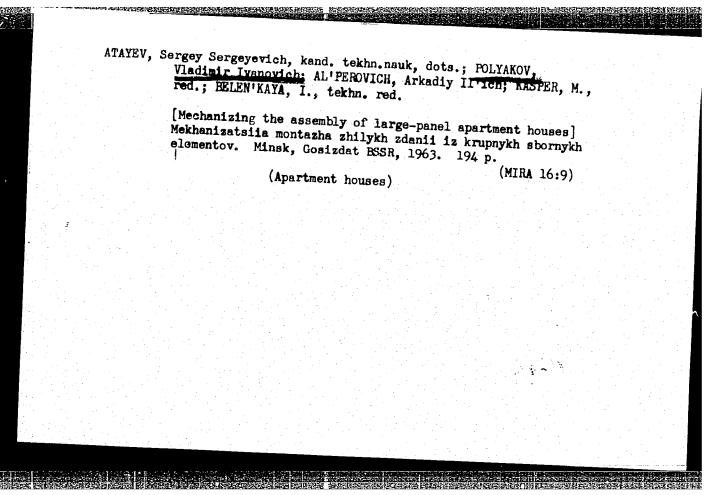
(Apartment houses) (Precast concrete construction)



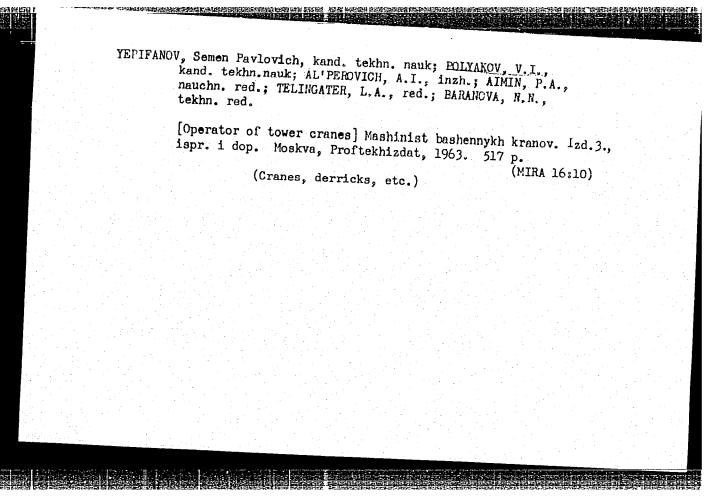








POLYAKOV, Vladimir Ivanovich, kand. tekhn. nauk; AL'PEROVICH, A Arkadiy Il'ich, inzh.; KOBISHCHANOV, V.N., inzh., red. [The PEK-5 tower pneumatic-wheel crane with a lifting capacity of 5 tons] Bashennyi pnevmokolesnyi kran PBK-5 gruzopod"emnostilu 5 t. Moskva, Gosstrolizdat, 1963. 24 p. (MIRA 16:6) 1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitelistvu. 2. Rukovoditel' laboratorii tipazha stroitel'nykh i dorozhnykh mashin Nauchno-issledovatel'skogo instituta organizatsii mekhanizatsii i tekhnicheskoy pomoshchi stroitelistvu (for Polyakov). 3. Spetsialist laboratorii tipazha stroitel'nykh 1 dorozhnykh mashin Nauchno-issledovatel skogo instituta organizatsii mekhanizatsii i tekhnicheskoy pomoshchi stroitel!stwu (for Al'perovich). (Cranes, derricks, etc.)



KIMEL', L.R.; PANCHENKI, A.M.; POLYAKOV, V.I.; TERENT'YEV, V.P. Experimental study of the distribution function of monodirectional point sources of y-quanta with initial energies of 0.661 and 1.25 Mev. in concrete, aluminum, iron, and lead. Vop. doz. i zashch. ot izluch. (MIRA 17:3)

(MIRA 17:3)

CIA-RDP86-00513R001342010014-5" **APPROVED FOR RELEASE: 07/13/2001**

POLYAKOV, V.I., kand.tekh.nauk; AL'PEROVICH, A.I., inzh.

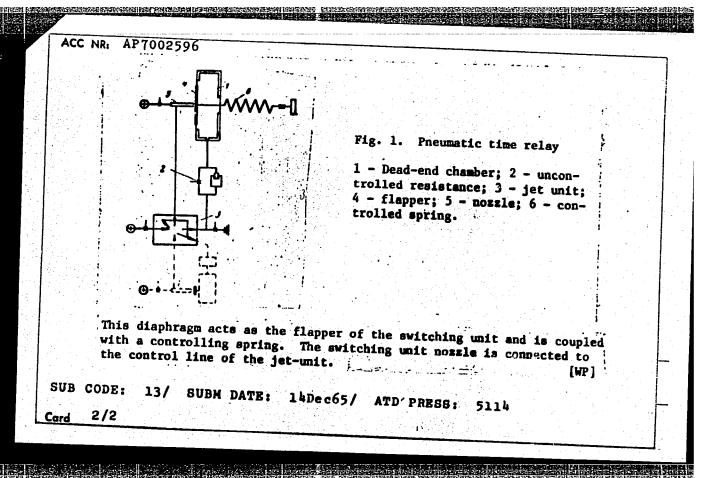
Modernization of the SEK-1 tower cranes. Bezop.truda v prom. 7 no.7:
26-29 Jl '63. (MIRA 16:9)

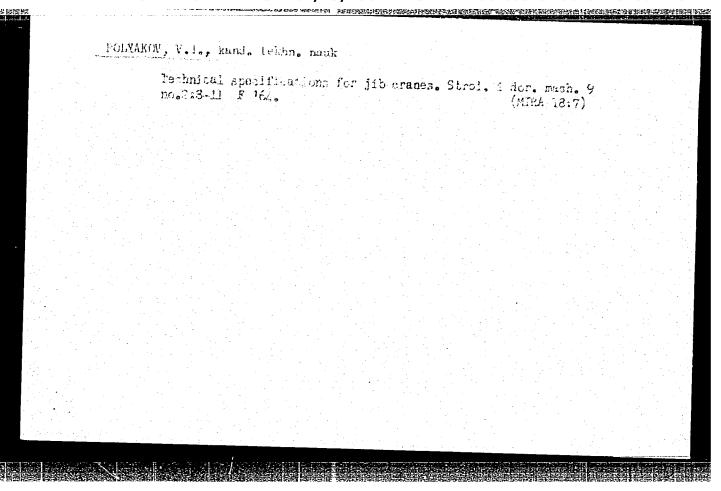
1. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkitektury SSSR.

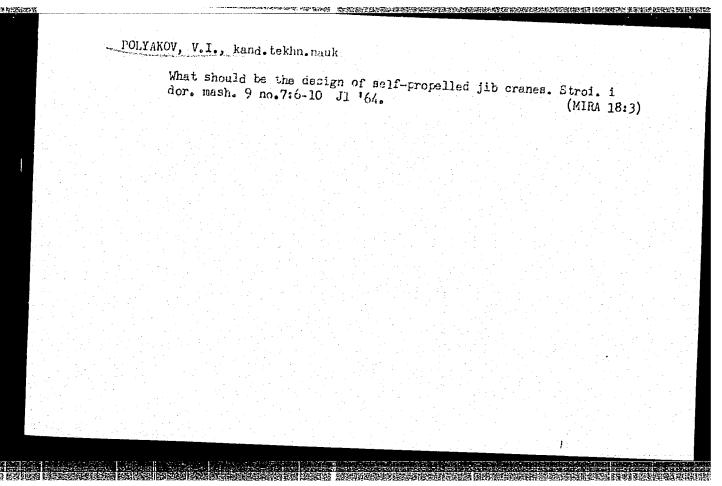
(Cranes,derricks, etc.—Technological innovations)

NICKELLAND PROGRAMMENT OF THE PR ACC NR AP7002596 SOURCE CODE: UR/0413/66/000/023/0102/0102 INVENTOR: Soms, M.K.; Krishtul, I.B.; Polyakov, V.I.; Dmitriyev, V.N.; ORG: none TITLE: Pneumatic time relay. Class 42, No. 189234 [announced by Allunion Scientific Research Institute of Medical Instruments and Equipment (Vsesoyuznyy nauchno-issledovatel'sky institut meditsinskikh instrumentov, i oborudovaniya); Institute of Automation and Telemechanics AN SSSR (Institut automatiki i telemekhaniki AN SSSR)]

(TEKNAICHESKO, KIGEENETIKI) SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 102 TOPIC TAGS: pneumatic device, pneumatic control, automatic pneumatic control, TIME RELAY, TIME SWITCH ABSTRACT: An Author Certificate has been issued for the pneumatic time relay shown in Fig. 1. To provide independent fine control of switching time the receiving nozzle of the jet unit is connected through uncontrolled resistance to the dead-end chamber, one end of which forms a diaphragm. UDC: 681.118.5-525







POLYAKOV, V.I. Bffect of alcohol on carbohydrate function of the liver in a galactose (MIRA 12:11) test. Terap.arkh. 31 no.8:67-70 Ag *59. (MIRA 12:11) 1. Iz kafedry gospital noy terapii No.2 (nach. - prof. Z.M. Volynskiy) Voyenno-meditainskoy ordena Lenina akademii imeni S.M. Kirova. (LIVER FUNCTION TESTS) (ALCOHOL, ETHIL)

SPASSKIY, Vladislav Akimovich, polkovnik med. sluzhby, prof.;
ARKAYEV, Viktor Alekseyevich, polkovnik, med. sluzhby, dots.; Prinimeli uchastiye:AMTIPIN, G.M., podpolkovnik med. sluzhby; PAKHOMOV, V.I., polkovnik med. sluzhby; PAKHOMOV, V.I., polkovnik med. sluzhby, red.; CHAPAYEVA, R.I., tekhn. red.

[Military hygiene)Voennaia gigiena. 12d.2., perer. i dop. Moskva, Voenizdat, 1962. 167 p.

(Military hygiene)

(Military hygiene)

SMOLIN, V.N.; POLYAKOV, V.K.; YESIKOV, V.I.

Critical heat transfer in a steam-generating tube. Atom. energ. (MIRA 15:9)

13 no.4:360-364 0 '62.
(Nuclear reactors) (Cooling)

ACCESSION NR: AP4036525

s/0089/64/016/005/0417/0423

AUTHOR: Smolin, V. N.; Polyakov, V. K.; Yesikov, V. I.

TITIE: Experimental investigation of critical heat transfer

SOURCE: Atomnaya energiya, v. 16, no. 5, 1964, 417 423

TOPIC TAGS: critical heat transfer, steam generating pipe, heat transfer criteria, forced circulation, heat transfer medium

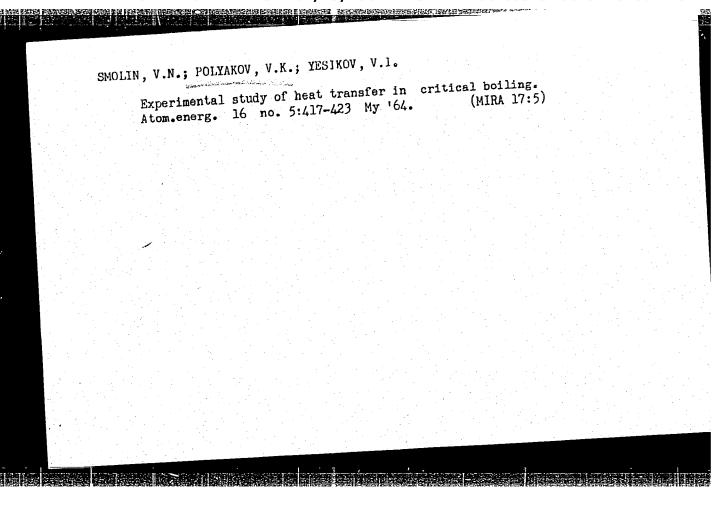
ABSTRACT: This work was undertaken due to the fact that while different estimates of critical flows of subcooled liquids or water and steam mixture with low steam content are in good agreement, there is a general disagreement concerning data on flows with higher steam content even under the same experimental conditions. There is also a discrepancy among different studies concerning the qualitative influence of various factors (steam content, mass velocity, tube diameter) on critical heat transfer, which is probably due to the difference in experimental methods. The investigations covered pipes with 5-16 mm i.d. under pressures (49 to 196) 105 n/m² and mass velocities of 500-8000 kg/m² sec. Formulas are proposed for critical heat flow. Data on critical hear transfer in vertical steam

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	generating pipe It was found th given material point. The exp ing to the foll on the surface suggested and i are ruled by Re described by Pr tables.	s with forced at the degree is determined erimental dat owing general is the same a tts formula gi	of bursting by the tempe have been t lines: (1) has with volume liven), (2) hy	rature jump oc ranslated into the number of boiling (G. N drodynamic cha	curing at to criterial care general care gen	he critical forms, accor trating cent creterion s of the fl afluence is	rd- ers
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SMOLIN, V.N.; POLYAKOV, V.K.; YESIKOV, V.I.; SHUINOV, Yu.N.

Test stand study of the starting conditions for the I.V.
Kurchatov Beloyarsk Nuclear Power Plant. Atom. energ. 19
no.3:261-268 S '65.

(MIRA 18:9)



EdT(n)/EPF(n)-2/T/-DML 2228-66 UR/0089/65/019/003/0261/0268 ACCESSION NR: AP5023767 621.039.514.23 m, V. N.; Polyakov, V. K.; Yesikov, V. I.; Shuinov, Yu. N AUTHOR: S. TITLE: Study on a stand of the start-up conditions of the I. V. Kurchatov atomic power plant in Beloyarsk SOURCE: Atomnaya energiya, v. 19, no.3, 1965, 261-268 TOPIC TAGS: atomic energy plant equipment, nuclear power plant, water cooled nuclear reactor, boiling water reactor ABSTRACT: The hydrodynamic stability of the flow rate of the heat carrier in the channels under boiling conditions was studied, and the switching of heating channels from water-cooling to vapor-cooling operation followed by the attainment of the rating is discussed. Experimental thermotechnical stands were constructed the basic configurations of which corresponded to the technological layouts of the first and second units of the electric power station. On the basis of the data obtained from the experiments performed, operational conditions providing for a stable flow rate and reliable cooling in the evaporating and superheating Card 1/2

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channels during the start-up per	riod and under rated condition	heating channels by a steam
that the method of gradual repre	tames an adequate operat	ion of the channels and of the
water mixture and then by steam entire system during the start-	up period. Orig. art. has:	7 figures.
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ASSOCIATION: None		
	ENCL: 00	SUB CODE: NP
SUBMITTED: 18Sep64		
NO REF SOV: 005	OTHER: 003	
	4일 라들이 바르시 R.네일인 전도 함께 확여하고 있다.	
	성진하다는 그리고 한 경우를 받는 것이 모르는 하다.	발생님들이 들어 하면 되었다. 그 아니라 하고 있다니다.

s/089/62/013/004/005/011 B102/B108

Smolin, V. N., Polyakov, V. K., Yesikov, V. I.

AUTHORS:

Heat transfer crisis of a steam-generating tube

TITLE:

Atomnaya energiya, v. 13, no. 4, 1962, 360 - 364

PERIODICAL:

TEXT: The heat transfer crisis was investigated using a vertical tube made of 1X18H9T (1Kh18N9T) stainless steel, 1 mm thick and of 10 mm diamoter. The tube was filled with chemically desalted water and was connected into a circulation. The rate of flow Wg, amounting to 850-7000 kg/m²-sec,

was regulated by a valve 20 m away from the experimental portion. water was heated electrically. At a pressure of 150 at, the thermal load q amounted to (0.46 - 1.65). 106 kcal/m².hr. The temperature distribution along the experimental tube was measured with chromel-copel thermocouples which were arranged as shown in Fig. 1. The temperature of the water at the inlet to the heater, and the temperature of the water-steam mixture at the outlet od the tube, were measured with resistance thermometers. These were connected to appropriate secondary instruments for determining the

Card 1/4

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lient transfer crisis ..

moment at which the crisis set in and for cutting off the supply of heat if the temperature of the tube wall then exceeded 600°C. Under a fixed thermal load the flow rate was varied and the experiment broken off at whatever flow rate caused the temperatur jump on the tube wall to reach 10-15°C at the moment of crisis. The dependence of the steam content on the critical rate of flow was measured for different values of q. The resulting family of curves showed a minimum between 2000 and 3000 kg/m2.sec. As q increased, the curves flattened and lay deeper, the minimum being shifted towards higher values of Wg. The abrupt fluctuations in the wall temperature, indicating the approach of the crisis, were plotted under various boiling conditions. The trend of these graphs reveals the course of heat transfer in each individual case and makes it possible to draw general conclusions as to the development of the crisis; for example, the existence of a limit of W is thereby confirmed. When whim is reached, the effect of the flow rate on the critical thermal load is reversed. effects of translational motion outweigh those of the rotational motion, and when "g > wlim the opposite is true. The critical thermal load is

Card 2/4

S/089/62/013/004/005/011 B102/B108

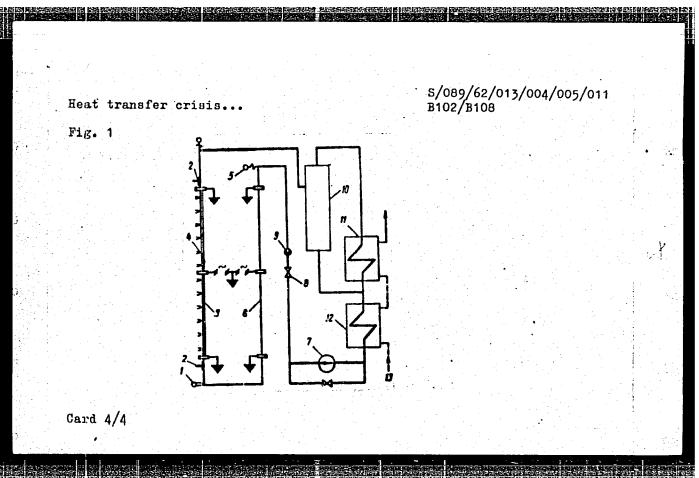
Heat transfer crisis...

found from two equations of the form y = ax z , the range of application being given by $K_{\lim} = \frac{1-x}{W_g} = 0.345 \cdot 10^{-3}$. If $\frac{1-x}{W_g} > K_{\lim}$, then $q_{cr} = 9.1 \cdot 10^8 \frac{(1-x)^{3.2}}{W_g^{0.8}}$ kcal/m²·hr, and if $\frac{1-x}{W_g} \le K_{\lim}$, then

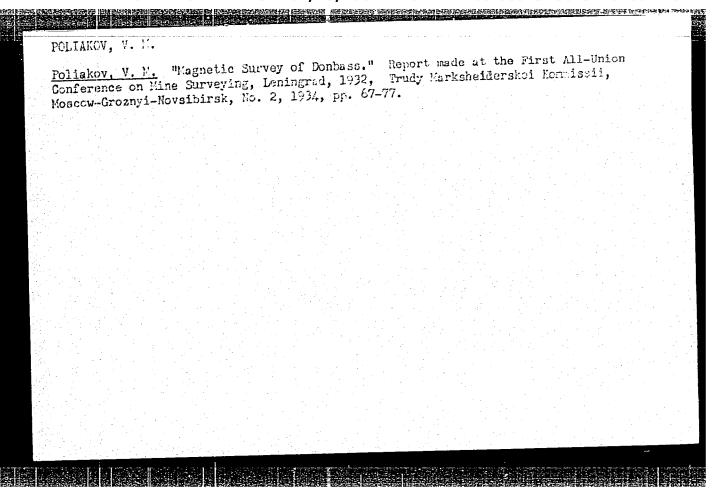
 $q = 1.10^4 (1-\beta)^{1.11} \cdot w^{0.7} \text{ kcsl/m}^2 \cdot \text{hr}$, where β is the steam content per unit volume. The two formulas hold for pressures of 150 at in tubes of 8 mm bore within the range of flow rates under consideration and with a steam content of not more than 50% by weight. The error of the formulas is ±30%. There are 4 figures.

June 10, 1961 SUBMITTED:

Card 3/4



3	L 04256-67 EWT(1) GW ACC NR: AP6013323 SOURCE CODE: UR/0413/66/000/008/0150/0150
	AUTHORS: Golovanov, A. M.; Zolenskiy, V. Yu.; Polyakov, V. L.; Troitskiy, B. R.
	ORG: none
	TITLE: A method for consolidating loss soils. Class 84, No. 181007
	SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 150
	TOPIC TAGS: soil, soil property, soil mechanics, soil consolidation
	ABSTRACT: This Author Certificate presents a method for consolidating loess soils by forcing into them (through injectors) a silicate solution fed by compressed air. To increase the radius of the consolidation zone, to shorten the period of injection, and to diminish the amount of the solution, forcing of the latter into the soil is conducted under an air pressure which is uniformly increased in the course of the process. The amount of the solution is held to 0—80 liters/minute.
	SUB CODE: 08 / SUBM DATE: 21Dec64
	Cord 1/1 fv UDC: 624.138.24
	Card 1/1 fv UIC: 624.136.24



POLYAKOV, V. M. Mine Surveying				
Orienting an underground sur lines. (Trudy) VNIMI 22, 1	vey on a vertical 950.	shaft by using two	restricted plumb	

9. Monthly List of Russian Accessions, Library of Congress, October 1958, Uncl.

POLYAKOV, V. H. "On the dimensions of mineral barriers in the Donbass", Trudy Vsesoyuz. nauch.-issled. marksheyder. in-ta VNIHI, Collection 15, 1948, p. 63-85.

SO: U-283S, 12 Feb. 53, (Letopis' Zhurnal 'nykh Statey, No. 2, 1949).

POLINAKON KM

ATO F - 522

Subject

: USSR/Engineering

Card 1/1

Pub. 93 - 9/12

Author

Polyakov, V. M., Engineer

Title

BEN DER BENEFIT DER BENEFIT DE LES CONTROL PORTO : Reconstruction of the crane "Pioner-2"

Periodical

: Sbor. mat. o nov. tekh. v stroi., 6, 23-24,

Abstract

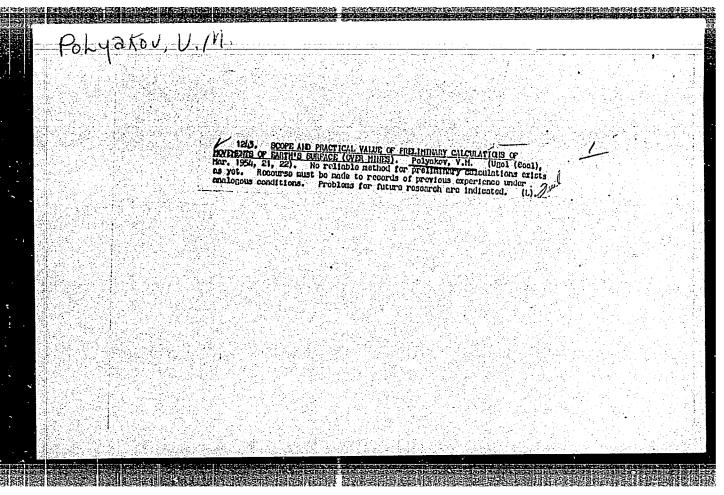
: For the steel structure assembly of the Barnaul Cotton Textile Kombinat weaving mill a reconstructed crane of the type "Pioner-2" was used. The crane's beam was extended to 9 m with a lifting capacity up to 950 kgr.

Diagram.

Institution:

None

Submitted : No date



LOCAHROY A.D. .

- 1. DEMENEV, N. V.; BUYNOV, N. N.; POLYAKOV, V. M.
- 2. USSR (600)
- 4. Salts, Double
- 7. Structure of the double salt of titanium and potassium sulfates. Dokl.AN SSSR 87 no. 6, 1952.

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

Improving the design of mine car wheels. Mast. ugl.6 no.2:21 (MIRA 10:4) (Wheels)	POLYAKOV	. V., inzhener.				
		Improving the des	A Company of the Comp	wheels. Mast.	ugl.6 no.2:21 (MIRA 10:4)	
			(*19618)			

IX. Field of application and practice surface displacement in advance. Ugol	nl value of calcul 1'29 no.3:21-22 M	ating earth r 154. (MLRA 7:3)
1. Kombinet Stalinugol'. (Earth	movements) (Coal mines and	mining)

(Sand, Foundry)	New method of	removing used			proizy. no.l:1/:- (MIRA 11:2)	
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FOLYAKOV, V.M.

37-11-16/18

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AUTHOR:

Polyakov, V. M.

TITLE:

Evaluation of Temperature and Density of Gas at the Height of the Ionospheric Layer (Ob otsenke temperatury

i plotnosti gaza na vysote ionosfernogo sloya)

PERIODICAL: Trudy Nauchno-issledovatel'skogo instituta zemnogo magnetizma, 1957, Nr 11(21), pp. 184-189 (USSR)

ABSTRACT:

The article discusses accumulated temperature data and standard relationships between temperature and altitute; the reliability of observations above 120 km is questioned. Variable temperature conditions in the upper ionosphere (zone F) and in layer E are described and the possibility of a temperature minimum between them is suggested. Efforts to determine the density of particles were not entirely successful. The problem of colliding particles and distribution of electrons in a gas is analyzed, and better techniques of exploration are suggested. There are 1 figure and 13 references, 9 of which

are USSR, and 4 English.

AVAILABLE:

Card 1/1

Library of Congress

CIA-RDP86-00513R001342010014-5" APPROVED FOR RELEASE: 07/13/2001

S/169/60/000/009/006/007 A008/A001

9,9100 (2101,1041,1646)

Translation from: Referativnyy zhurnal, Geofizika, 1960, No.9, p.203, # 11639

AUTHOR:

Polyakov, V.M.

TITLE:

On Determining the Ionization-Recombination Constants of the F2-

Layer

PERIODICAL:

Tr. Sibirsk, fiz.-tekhn, in-ta pri Tomskom un-te, 1959, No. 37,

pp. 29-48

TEXT: When describing the processes of origination and variation of the ionization state of an arbitrary region of the ionosphere, and in particular of the F2-layer, we must use the equations of a simple layer, though it is well known that these equations do not describe in full measure the ionization dynamics of this layer. The necessity of using again and again the equations of a simple layer results from the elementary considerations that the processes taken into account by these equations must take place without fail at the origination of ions, and in particular, at the origination of any of the known ionospheric layers. Therefore, when we encounter a discrepancy between the phenomena observed

Card 1/2

\$/169/60/000/009/006/007 A005/A001

On Determining the Ionization-Recombination Constants of the F2-Layer

and the results from the simple layer theory, we should not speak on the inapplicability of the given equations but on their limitation. In particular, the main limitation of the equations of the simple layer is the fact that these equations do not take into account the dynamics of the gaseous medium in both molecular processes (diffusion, heat conductance) and macro-processes caused by the various factors of thermodynamic and electrodynamic nature. Therefore, it is natural that it makes sense to take as a basic the equations of the simple layer and to supplement them in correspondence with the actual problem under consideration in making each new attempt of more exact description of dynamics of the F region ionization.

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Author's summary

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

S/169/61/000/002/025/039 A005/A001

9,9110 (\$ \$01041,1046)

Translation from: Referativnyy zhurnel, Geofizika, 1961, No. 2, p. 41, # 20291

AUTHOR:

Polyakov, V. M.

TITLE:

On the Part of Collisions in the Dynamics of Ionization of the

Ionosphere F-Region

PERIODICAL:

"Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te", 1959, No. 37, pp.

68-84

TEXT: The essential difference in the effective cross sections of ions and neutral particles colliding with electrons leads to a strong dependence of the effective number of collisions V on the ionization state at the levels of the F2-layer of the ionosphere. Consequently, the value of V depends in a complicated manner on time and altitude. Two special cases of this dependence are analyzed: the diurnal variations of V at the maximum of the F2-layer and the spatial distribution of V for a given initial distribution of ionization. The analysis of the former dependence led, at certain approximations, to correlations which make it possible to estimate the temperature and concentration of neutral particles from the diurnal courses of V, effective recombination coefficient K, and electron

Card 1/2

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S/169/61/000/002/025/039 A005/A001

On the Part of Collisions in the Dynamics of Ionization of the Ionosphere F-Region

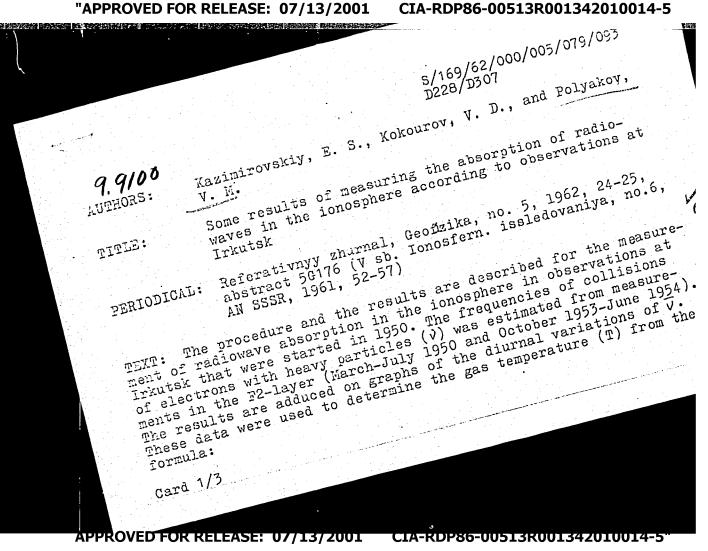
density N_{e^*} . The dependence of α on the temperature (α = α) and the linear increase of T with the altitude were presumed. The cases are considered when the ionization state is far from and near the saturation. In the second part of the work, the effect of ionization state on the conditions of electron diffusion is considered in connection with the difference in the length of the free path, which depends on γ . For a sufficiently great part of the ions in the collision processes, the coefficient of ambipolar diffusion sharply increases below the maximum of the layer. The ahalysis of the possible part of the diffusion in this case points out, for an initial distribution N_{e} satisfying the simple layer, the possibility of formation of a second maximum of the effective ionization magnitude located below the maximum of the electron density of the F2-layer. It is shown that, for concentrations of the neutral particles of about 10^{10} cm⁻³ and T \sim 1,000° C, the formation of the F1-layer is possible owing to the electron diffusion. The calculations agree well with the actual data.

L. Shchepkin

Translator's note: This is the full translation of the original Russian abstract. Card 2/2

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Some results of ...

$$\overline{V} \left[\Delta N_e / N_e - \Delta \overline{V} / \overline{V} \right] / \Delta \overline{V} = \Psi (T, h, N_e)$$

(see RZnGeofiz, no. 9, 1956, 27402). The results of absorption measurements on the frequency 2,2 Mc/s during the IGY are described. The seasonal variation of the median absorption magnitude (L) on this frequency could not be successfully ascertained, since (L) on these frequencies the absorption is mainly governed by the solar activity. A correlation, which is weaker in winter months, exists activity. A correlation, which is weaker in winter months, exists activity. A correlation, which has a high correlation the absorption's diurnal variation, which has a high correlation the absorption's diurnal variation, which has a high correlation with fmin and the sun's zenith angle, to be studied. / Abstracter's note: Depending on the meaning of "RMD", the preceding word could also be rendered as "on" or "in". 7. The work's results confirm that fmin can serve as a sufficiently reliable criterion for absorption in a non-deflecting region. For the comparability of the results of the network of stations it is necessary to measure fmin Card 2/3

Some results of	•••	S	S/169/62/000/005/079/093 D228/D307		
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4, 9/00 LUTHORS:

D201/D308

Kazimirovskiy, E.S., Kokourov, V.D., and Polyakov, V.

M.

TITLE:

Some results of measurements of radiowave ionosphere absorption in Irkutsk

PERIODICAL: Re

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, 27-28, abstract 6Zh185 (V sb. Ionosfern. issledovaniya, no. 6, M., AN SSSR, 1961, 52-57)

TEXT: The authors communicate the results of measurements of radiowave ionosphere absorption carried out in Irkutsk between March June 1950 and October 1953 - June 1954. The absorption was measured at frequencies of 2.2 and 2.6 mc/s by means of pulse probing with a specially built experimental measuring equipment. For night-analysis, for the day-time the first reflections were used for the purpose of nent equipment. The authors calculate errors due to the underestimation of the coefficient of reflection of radiowaves by the Earth Card 1/2

\$/194/62/000/006/161/232 Some results of measurements of ... D201/D308 tained data on the number of collisions, the temperature of the \mathbb{F}_2 layer of the ionosphere is calculated. It is found that the effective number of collisions is controlled by diurnal ionization chan-

ge to a greater extent than by temperature variations, as used to be supposed earlier. The analysis of seasonal variations of absorption has shown good correlation between absorption and the index of solar activity. The diurnal absorption change exhibits great similarity with the behavior of f_{min} and $\cos \chi$. [Abstracter's note:

Card 2/2

S/058/62/000/006/113/136 A062/A101

9.9100

AUTHORS:

Kazimirovskiy, E. S., Kokourov, V. D., Polyakov, V. M.

TITLE:

Some results of measurements of radio wave absorption in the

ionosphere effected at Irkutsk

PERIODICAL:

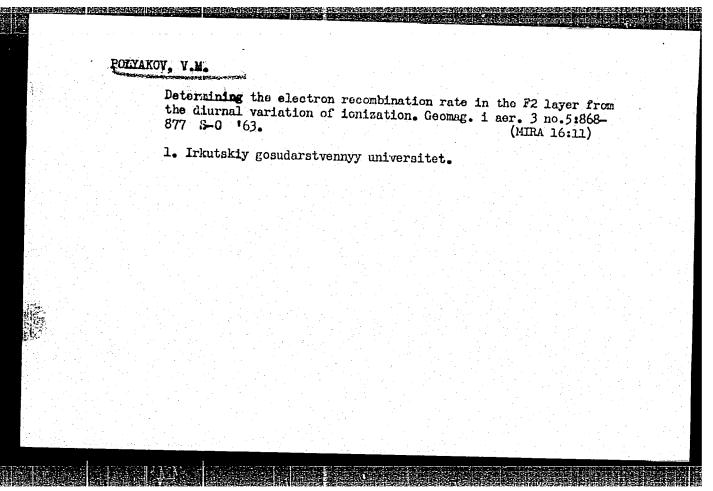
Referativnyy zhurnal, Fizika, no. 6, 1962, 27 - 28, abstract 6Zh185 (V sb. "Ionosfern. issledovaniya. no. 6," Moscow, AN SSSR, 1961,

52 - 57, English summary)

Results of measurements of radio wave absorption effected at Irkutsk from March to June 1950 and from October to June 1954 are reported. The absorption was measured on 2.2 and 2.6 Mc frequencies by the pulse probing method on a specially prepared experimental measuring installation. In the processing, use was made of reflections of first and second order for night time, and for day time - reflections of first order with use of the stationary installation. An evaluation is made of the errors due to underestimating the coefficient of the radio wave reflection from the Earth and to absorption without deflection in the lower regions. Average daily values, for one to two months, of the dependence of



Card 1/2



L 04586-67 EWT(1)/FCC GD/GW ACC: NR. AT6027209 SOURCE CODE: UR/0000/66/000/000/0003/0016 AUTHOR: Polyakov, V. M. (Candidate of physico-mathematical sciences) ORG: none TITLE: Characteristics of night and day ionization of the F sub 2 layer in winter in the middle latitudes SOURCE: AN SSSR. Sibirskoye otdeleniye. Sibirskiy institut zemnogo magnetizma. ionosfery i rasprostraneniya radiovoln. Issledovaniya po geomagnetizmu i aeronomii (Studies in geomagnetism and aeronomy). Moscow, Izd-vo Nauka, 1966, 3-16 TOFIC TAGS: diurnal variation, atmospheric ionization, atmospheric diffusion ABSTRACT: V. M. Polyakov [1] conducted a detailed analysis of temporal variation of the electron concentration N at the maximum in the layer or at a certain constant distance Z_0 , using the following equation $\frac{dN}{dt} = q(z, t) - L(z, t) + \Phi(z, t), \qquad (1)$ where q(z, t) is the intensity of ion formation determined by the number of ionizations per unit volume per second, L(z, t) is a function numerically equal to the number of neutralized electrons in a unit volume per second, and (z, t) is the change of electron concentration associated with the transfer of electric charges primarily due to diffusion. A simplified Card 1/3

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formula is derived for the function q(z, t) using the present-day concepts of atmospheric models on the assumption that most of the absorption in the F-region is associated with atomic oxygen and molecular nitrogen.

In the analysis, it is assumed that free electrons and atomic ions are first neutralized in a reaction of the type

$$0^+ + M_2 \longrightarrow M0^+ + M$$
 (2)

followed by dissociative recombination

$$MO^+ + e \longrightarrow M^1 + O^1$$
 (3)

The function L(z, t) can be written as follows:

$$L(z, t) = \alpha [MO^*] N = KN = \alpha' N^*,$$
 (4)

where a is the reaction rate coefficient and where [MO[†]] is the concentration of molecular ions. It is then shown that a change in the concentration of molecular ions associated with the variation of N is of the form of a diurnal wave with amplitude Q and a phase shift. Calculations performed show that the concentration of molecular ions in the atmosphere can vary significantly and that these variations do not necessarily coincide in phase with the variation of the electron concentration. This agrees with the experimental data.

L 04686-67 ACC NR: AT6027209 The changes in electron concentration caused by diffusion are expressed by Ferraro's equation (V. C. A. Ferraro, Terr. Mog. Atmos. Elect. 50, 1945, p. 205; '51, 1946, p. 427). These rapid changes are due to the slow recombination rate and the diffusion of charges from the upper part of the F2 The analysis conducted in the present paper [1] together with the analysis of data on diurnal variation of ionization in the F_2 layer at middle latitudes show that the slow rise of the layer during the first half and rapid descent during the second half of the night in the presence of only a small variation in the concentration on the maximum of the layer, is in agreement with the concept of residual ionization. A relatively rapid neutralization of electrons immediately after sundown disrupts the lower part of the layer by displacing the maximum upward, and is accompanied by a decrease in the electron concentration. A decrease in the neutralization rate during the second half of the night above 300 km, where dissociative recombination is relatively important, causes the layer to descend as a result of diffusion. The neutralization rate at this time is much smaller than during the first half of the night. Thus, the regular variations of the electron concentration in the maximum of the F_2 layer are determined primarily by the kinetics of ionization-recombination processes, while the distribution of electron concentration in respect to the attitude is controlled by diffusion. The author thanks L. A. Shchepkin for material used in this work. Orig. art. has: 2 tables, 26 formulas and 3 figures. [ATD PRESS: SOB CODE: 5064-F / SUBM DATE: 25Dec65 / ORIG REF: 010 / OTH REF: Card 3/3

ACC NR: AP6032689 SOURCE CODE: UR/0203/66/

SOURCE CODE: UR/0203/66/006/005/0858/0368

AUTHOR: Polyakov, V. M.; Shchukina, T. B.

ORG: Institute of Geomagnetism, the Ionosphere, and Radiowave Propagation, SO AN SSSR (Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln, SO AN SSSR)

TITLE: Kinetics of ionization recombination processes in F2 layer of the ionosphere

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 5, 1966, 858-868

TOPIC TAGS: ionospheric physics, recombination coefficient, ion recombination, linear approximation, F layer

ABSTRACT: Kinetics of the ionization-recombination processes summarized by equations: $0^+ + M_2 \rightarrow M0^+ + M$ and $0^+ + e \rightarrow M + 0$ (where M and $0^+ + e \rightarrow M + e$ (where M and $0^+ + e \rightarrow M + e$) (which is investigated. A new method gas of an alog electronic computers is investigated. A new method gas of an alog electronic computers is investigated. A new method gas of an alog electronic computers is investigated. A new method gas of an alog electronic computers is investigated. A new method gas of an alog electronic computers is investigated. A new method gas of an alog electronic computers is investigated. A new method gas of an alog electronic computers is investigated. A new method gas of a

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SOURCE CODE: UR/2831/65/000/014/0013/0020

AUTHOR: Polyakov, V. M.; Shchepkin, L. A.

451

ORG: none

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TITLE: Peculiarities of regular changes in ionization and structural parameters of the ionospheric F2 layer

SOURCE: AN SSSR. Mezhduvedomstvennyy geofizicheskiy komitet. V razdel programmy MGG: Ionosfera. Sbornik statey, no. 14, 1965. Ionosfernyye issledovaniya, 13-20

ABSTRACT: The change of ion concentration in the F2 layer can be considered to be a result of ionization and recombination processes in this layer. These processes are studied by the balance equation for electron concentration

 $d(e)/dt = q(t) - L \boxtimes q_0 \varphi(z,t) - L,$

where q_0 is a constant; $\phi(z,t)$ is a function characterizing the change of atmospheric illumination; L is the term of recombination and it expresses the quantity of free electrons lost from a unit volume during one second. The recombination term L depends upon the form of electron recombination. Maximum formation of ions occurs at large Card 1/2

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AT6023724 ACC NR:

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zenithal distances of the Sun, and the electron density in the F2 layer attains the maximum value in the morning. Another maximum formation of electrons takes place in the Fl layer at small zenithal distances of the Sun. The electron concentration in the F2 layer was studied on the basis of data obtained from observations at Irkutsk, Tomsk, and Sverdlovsk. The intensity of ionization determined for an optical depth equal to one was represented graphically. The basic process in the F2 layer is the dissociative recombination of molecular ions with electrons. Atomic ions disappear during the exchange of charges with neutral molecules forming molecular ions. During rapid changes in electron concentration the photochemic equilibrium is disturbed. The speed of recombination is variable except in the summer, as experimental data show. In winter the concentration of molecular ions changes throughout the day. The F2 layer has one maximum of ion formations and electron concentration occurring when the Sun is in low positions above the horizon. This occurs during the winter and in the morning and evening. The main maximum of ion formation in the Fl layer occurs when the Sun is in a high position above the horizon. The F2 layer appears when there is a variable effective recombination coefficient. Orig. art. has: 4 figures and 13 for-

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 006/ ATD PRESS:5042

CIA-RDP86-00513R001342010014-5" APPROVED FOR RELEASE: 07/13/2001

L 3329766 EVT(1)/FCC GW ACC NR: AP6011704 SOURCE CODE: UR/0203/66/006/002/0341/0351	
\mathcal{B}	-
AUTHOR: Polyakov, V. M. ORG: Irkutsk State University im. A. A. Zhdanova (Irkutskiy gosudarstvennyy universitet)	
TITLE: Diffusion of charged particles in the F region of the ionosphere at middle latitudes	
SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 2, 1966, 341-351	
TOPIC TAGS: F layer, charged particle, ionosphere, particle distribution	
ABSTRACT: The purpose of the present study was to elicit the form of the height profile of the distribution of electron density which is established under the effect of the vertical diffusion of electron-ion gas, to determine to what extent the observed distribution of the electron concentration in the vicinity of the maximum of the F2 layer deviates from diffusive equilibrium, and to reveal the structure of the diffusion flux in the F region. It is shown that the Chapman form of the electron concentration distribution in the upper part and maximum of the layer is close to diffusive equilibrium. Deviation from equilibrium causes transfer of charged particles from the upper half of the layer to the lower half so that close to the maximum of the F2 layer the divergence of the diffusion flux changes sign and therefore remains negligible. The rate of mutual diffusion of various kinds of positive ions within the electron-ion gas without disturbance of the neutrality of the plasma is estimated. The study	
Cord 1/2 UDC 550,388.2	

Shows that autonomous diffusion of ions is extremely difficult. The coefficient of mutual diffusion of ions inside the electron-ion gas in the F region is at least by an order of magnitude less than the coefficient of ambipolar diffusion and strongly depends upon the degree of ionization of the gas. Therefore, during the day the mutual diffusion of ions is hampered and their distribution with height is established in conformity with photochemical processes. At night, owing to the decrease of relative ionization of the gas this diffusion again increases and its rate can be comparable with diffusion of the electron-ion gas. Therefore, at night a change in the ion composition with height under the effect of diffusion is possible. Orig. art. has: 24 formulas and 2 tables.

SUB CODE: 04 / SUBM DATE: 19Feb65 / ORIG REF: 010 / OTH REF: 035

SKLYAROV, Yu.A.; POLYAKOV, V.M.; YERMILOV, G.P.

Photographic observations of minor planets and cf Seki-Lines' comet in Saratov. Biul. Inst. teor. astron. 9 no.8:576 64.

(MIRA 17:12)

1. Saratovskiy pedagogicheskiy institut i Saratovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva.

POLYAKOV, V.M.

Application of a vascular suture using new instruments. Eksp. khir. i anest. 8 no.5319-21 S-D 163.

(MIRA 17:6)

1. Khirurgicheskoye otdeleniye (zav. V.M. Polyakov) medikosanitarnoy chasti (glavnyy vrach M.V. Turkhanova) Alimetiyevska Tatarskoy ASIR.

YEROFEYEV, N.M., otv. red.; MISHIN, V.M., kand.fiz.-matem. nauk, red.; POLYAKOV, V.M., kand. fiz.-matem. nauk, zam. otv. red.; KUZ'MIN, A.I., kand. fiz.-matem. nauk, red.; NIKOLAYEVA, L.K., red. izd-va; RYLINA, Yu.V., tekhn. red.

[Studies on geomagnetism and aeronomy] Issledovaniia po geomagnetizmu i aeronomii; doklady. Moskva, Izd-vo Akad. nauk SSSR, 1963. 149 p. (MIRA 16:6)

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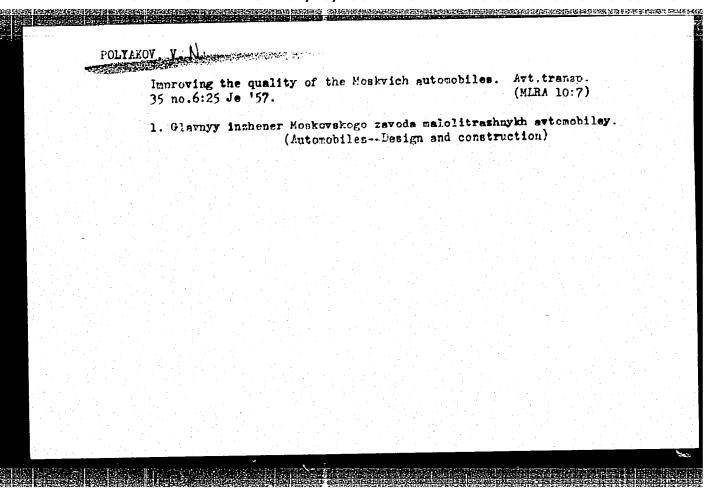
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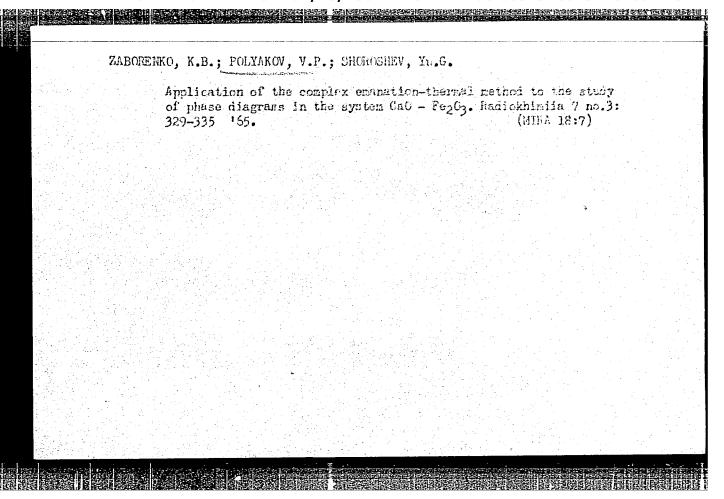
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,我们们,这些时间的现在分词,我们会对你们的证明,还是你不知识的,我们也不是不知识的,我们也不是不是不是的。"

1. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii i mekhanizatsii shakhtnogo stroitel'stva.

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学生的主义的自己的执行的关系,但是不是对对自己的对对的对对对对对对对对对

AUTHOR:

Polyakov, V.P., Lieutenant-Colonel of the Medical

Corps, Candidate of Medical Sciences

TITLE:

About the Diagnosis of Psychopathia

PERIODICAL:

Voyenno-meditsinskiy zhurnal, 1958, Nr 11, p 82

(USSR)

ABSTRACT:

The author writes about the most frequent symptoms of psychopathia such as: affective recrudescence, pronounced kinetic and vegetative disturbances, tremor of hands and legs, stammer, growing pale or, on the contrary, hyperemia of the skin surfaces, tachy-

cardia, constant kinetic unrest ab extra affect, difficul-

falling asleep, extremely sensitive sleep, and increase of reflexes. The author stresses that the diagnosis of psychopathia must never be based on single affective recrudescence or right disturbances as single affective recrudescence may occur not only in psychopathia, but also in some other morbid

Card 1/2

pagent's behavior in the unit in the medical characteristics. The individual approach to the military staff, and especially to soldiers who are suspected of being psychopathic,

will help to reduce to a minimum psychopathic, APPROVED FOR RELEASE: 07/43/2001 welCIAs RDP86-00513R001342010014-5" of psychopathia disturbing military discipline in some cases.

Card 2/2